

DEPARTMENT OF THE AIR FORCE
Headquarters Space and Missile
Systems Organization (AFSC)
PO Box 92960, Worldway Postal Center
Los Angeles CA 90009

SPACE DIVISION REGULATION 540-4
~~SAMSO REGULATION 550-4~~

18 May 1979

Commander's Policy

INDEPENDENT MASS PROPERTIES, STABILITY AND CONTROL ANALYSES OF ORBITAL, REENTRY AND LAUNCH VEHICLES

This regulation states the policy for independent mass properties stability and control analyses of orbital reentry and launch vehicles. Contractor assumptions in stability and control analyses as well as inaccuracies in mass properties models and data employed in these analyses have led to failures and anomalies of space systems.

PROGRAM MANAGER'S RESPONSIBILITIES:

a. Program directors will require an independent analysis of mass properties, stability, and control for all orbital, reentry and launch vehicles for which Space and Missile Systems Organization (SAMSO) has mission responsibility. The independent analyses will be accomplished at appropriate points in the program to assure validity of the contractor's effort.

SAMSOP 800-4 on independent mass properties, stability and control analyses of orbital, reentry and launch vehicles was developed to aid in implementing this policy.

b. System program directors will assure that significant variances in data or methodology between contractor data and independent assessments are resolved as early as possible in the program to avoid major perturbations to system design, vehicle integration and launch.

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